SUBMISSION ID: 1059115 Emerald BioEnergy FACILITY: LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: Original 4IN00204*BD **STATION CODE:** 581

MONITORING PERIOD: 2021-05-01 To: 2021-05-31

REPORTING LAB: Masi ANALYST: Cheryl Rex

PARAMETER	рН	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total in Sludge	Potassium In Sludge	Arsenic, Tota In Sludge	l Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	ma/ka	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING				· · · · · · · · · · · · · · · · · · ·			
TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06		-				 	
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2021-05-17		8					
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2021-05-28				***************************************	***************************************	***************************************	
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	5.45	23200.0	32100.0	11800.0	4470.0	0.5	0.04
Maximum	5.45	23200.0	32100.0	11800.0	4470.0	0.5	0.04
Average		23200	32100	11800	4470	0.5	0.04
Count	1	1	1	1	1	1	1
Name of Respo Official or Auth Representa	orized _{have j} tive _{famili}	fy under the pen personally exami ar with the infor tted herein and l	ined and am mation	I Signature of Authori	f Responsible zed Represent		Submission Date/Time
Jeffre Williams	inquir imme the in submi and co are si	y of those individiately responsile formation, I belicated information omplete. I am awanificant penalticant penalticant incl	duals ble for obtaining eve the is true, accurat are that there es for submittin	е			Certification Version Date 2021-06- 23 13:06

Page 1

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:581

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:MasiDISTRICT:CDOANALYST:Cheryl Rex

NO DISCHARGE INDICATOR:

			N	D DISCHARGE I	NDICATOR:		
PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fe Weight	e Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
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2021-05-30 2021-05-31							
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Minimum	105.0	0.6	4.0	197.0	2.0	14.3	14.3
Maximum	105.0	0.6	4.0	197.0	2.0	14.3	14.3
Average	105	0.6	4	197	2	14.3	14.3
Count		T	Tingini I		1	T	
Name of Resp			nalty of law that		of Responsible C		Submission Date/Time
Official or Aut	mave po	ersonally exam		Author	ized Representa	ative	Date/Time
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William	con and cor	nplete. I am aw					2021-06-
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		formation, incl					23 13:00
			imprisonment.				

Page 2

Original 4IN00204*BD SUBMISSION ID: 1059115 STATUS: FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: STATION CODE: MONITORING PERIOD:

Cardington, OH 43315

COUNTY: Morrow **REPORTING LAB:** CDO DISTRICT: ANALYST: Cheryl Rex

			NO	DISCHARGE II	NDICATOR:		
PARAMETER	Mercury, Total In Sludge	Molybdenum in Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING							
TYPE	Composite	Composite					
2021-05-01							
2021-05-02							
2021-05-03							
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2021-05-28						 	
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2021-05-31							
Minimum	0.0	2.0					
Maximum	0.0	2.0		***************************************		-	
Average	0.0	2.0					
Count	1	1		000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	300000000000000000000000000000000000000
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Page 3

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

PARAMETER PARAMETER OODE O0400 O0511 O0527 O0568 O0938 O0938 O1003 O1022 O0568 O0938 O0938 O1003 O1023 PREQUENCY I/Month I/Mon					N	O DISCHARGE II	IDICATOR.	AL	
VINITS S.U. mag/kg mg/kg mg/	PARAMETER	рН			Kjeldahl, Total				
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FREQUENCY Umonth 1/Month 1/Mon	UNITS	S.U		ma/ka	ma/ka	ma/ka	ma/ka	ma/ka	ma/ka
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2021-05-08	2021-05-01		•						
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possibility of fine and imprisonment.						-			23 I3:00
		9000	possib	ility of fine and	imprisonment.				

Page 4

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			N	D DISCHARGE I	NDICATOR:	AL	
PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fe Weight	e Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING							
TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-05-01				***************************************		000000000000000000000000000000000000000	
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Page 5

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			NO	DISCHARGE II	NDICATOR:	AL	
PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-05-01							
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Page 6

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:601

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB: Masi
DISTRICT: CDO ANALYST: Cheryl Rex
NO DISCHARGE INDICATOR: AL

Hydraulic Sludge Solids, Organic Sludge Solids Loading Rate (HLR) **PARAMETER** Percent COD, Soluble Loading Rate **Percent Total** Volatile (OLR) **PARAMETER** 51028 70318 70322 80116 99981 CODE UNITS GPD lb/cf/day ma/l FREQUENCY 1/Week 1/Week 1/Week 1/Week 1/Week **SAMPLING** Continuous Composite Composite Composite **Continuous TYPE** 2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31 Minimum Maximum Average Submission Name of Responsible I certify under the penalty of law that I Signature of Responsible Official or Date/Time Official or Authorized **Authorized Representative** have personally examined and am Representative familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining Certification the information, I believe the **Version Date** Jeffrey submitted information is true, accurate 2021-06and complete. I am aware that there Williamson are significant penalties for submitting 23 13:06 false information, including the possibility of fine and imprisonment.

Page 7

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:602

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

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Page 8

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:603

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			N	O DISCHARGE I	NDICATOR:	AL	
PARAMETER	Solids, Total Volatile	Sludge Solids, Percent Volatile	COD, Soluble	Oil and Grease, Hexane Extr Method	Foreign Matter, percent		
PARAMETER CODE	00157	70322	80116	00552	99979		
UNITS	% Removed	%	mg/l	mg/l	%		
FREQUENCY	1/Week	1/Week	1/Week	1/Month	1/Month		
SAMPLING							
TYPE	Calculated	Composite	Composite	Composite	Composite		
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Page 9

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:604

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:N/ADISTRICT:CDOANALYST:jeffrey williamson

NO DISCHARGE INDICATOR:

				141	DISCHARGE II	IDICATON.		
PARAMETER	Freeboa	ard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	ı	99977					
UNITS	feet		mgals					
FREQUENCY	1/Wee	k	1/Week					
SAMPLING	Total		Total					
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Page 10

SUBMISSION ID: 1059115
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 605
MONITORING PERIOD:

2021-05-01 To: 2021-05-31

REPORTING LAB: N/A

ANALYST: Jeff williamson

			141	DISCHARGE II	IDICATON.		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
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Count	4			000000000000000000000000000000000000000	***************************************	000000000000000000000000000000000000000	
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Page 11

SUBMISSION ID:1059115STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:606

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:N/ADISTRICT:CDOANALYST:Jeff williamson

NO DISCHARGE INDICATOR:

			N	O DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals				i	
FREQUENCY	1/Week	1/Week					
SAMPLING							
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2021-05-09							
2021-05-10	***************************************			***************************************			
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14	6	.08000					
2021-05-15 2021-05-16		-	-				
2021-05-16		-					
2021-05-17					***************************************		
2021-05-19	***************************************						
2021-05-20							
2021-05-21	6	.08000					
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25		-					
2021-05-26 2021-05-27							
2021-05-28	3.5	.32200		***************************************			
2021-05-29	515	13220					
2021-05-30							
2021-05-31							
Minimum	3.5						
Maximum	6.0						
Average	5.375			000000000000000000000000000000000000000			
Count	4		1	7 6	.	0651-1-1	Cubminin
Name of Resp Official or Aut		fy under the per		1 Signature o	f Responsible (ized Represent		Submission Date/Time
Representa	F	personally exam		Autilor	izeu nepieselit	arive	ar ar aw, 1 1111 W
nepresenta	år cr r r r r r r	ar with the infor					
***************************************		tted herein and			***************************************		
		y of those indiv		.			
		diately responsi formation, I beli		³			Certification
Jeffre	une ini	tormation, i beli tted information	is true securet				Version Date
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	are si	gnificant penalti nformation, incl		9			23 13:06
		mormation, inci- pility of fine and					
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Page 12

Original 4IN00204*BD SUBMISSION ID: 1059115 STATUS: FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: STATION CODE:

MONITORING PERIOD: Cardington, OH 43315

COUNTY: Morrow **REPORTING LAB:** DISTRICT: CDO ANALYST: jeffrey williamson

			N	D DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-05-01		<u> </u>					
2021-05-02							
2021-05-03 2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07	1.5	2.78000					
2021-05-08	~~~~~						
2021-05-09	***************************************			***************************************			
2021-05-10 2021-05-11		<u> </u>					
2021-05-12		<u> </u>					
2021-05-13							
2021-05-14	1.5	2.78200					
2021-05-15							
2021-05-16							
2021-05-17	***************************************			***************************************			
2021-05-18 2021-05-19	***************************************	•		***************************************	•		
2021-05-20							
2021-05-21	1.5	2.78200					
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25		 					
2021-05-26 2021-05-27	***************************************	-		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
2021-05-27	1.5	2.64500					
2021-05-29	2.10	2.04500					
2021-05-30							
2021-05-31							
Minimum	1.5						
Maximum	1.5						
Average	1.5			530000030000030000003000000000000000000		000000000000000000000000000000000000000	
Count	4	<u> </u>	L				
Name of Resp	onsible I certif	fy under the per	alty of law that	Signature o	f Responsible	Official or	Submission Date/Time
Official or Auti Representa	norized have p	personally exam	ined and am	Autnor	ized Represent	ative	vate/IIIIe
vehiezeurg	år cv 11 tr 11 t	ar with the infor					
***************************************		tted herein and		***************************************		***************************************	***************************************
Jeffre Williams	immed the inf submit and co are sig	y of those indivi- liately responsil- formation, I beli- tted information emplete. I am aw mificant penalti	ble for obtaining eve the is true, accurat vare that there es for submittin	e			Certification Version Date 2021-06- 23 13:06
ARGURANGURANGURANGURANGURANGURANGURANGUR		nformation, incl ility of fine and					***************************************

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SUBMISSION ID: 1059115
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 608
MONITORING PERIOD:

2021-05-01 To: 2021-05-31

REPORTING LAB: N/A

ANALYST: Jeff williamson

			N	DISCHARGE I	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING							
TYPE	Total	Total					
2021-05-01 2021-05-02							
2021-05-03		9					
2021-05-04							
2021-05-05		-					
2021-05-06 2021-05-07		1.52500	ļ				
2021-05-08	2.5	1.32300				***************************************	
2021-05-09		-				***************************************	
2021-05-10				***************************************			
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14	2.5	1.53500					
2021-05-15 2021-05-16		-					
2021-05-17				***************************************			
2021-05-18						***************************************	
2021-05-19							***************************************
2021-05-20							
2021-05-21	2.5	1.53500					
2021-05-22		-					
2021-05-23		<u> </u>					
2021-05-24 2021-05-25		8					
2021-05-26		1					
2021-05-27				***************************************			
2021-05-28	2.5	1.30500					
2021-05-29							
2021-05-30		-					
2021-05-31							
Minimum	2.5	.		***************************************			
Maximum Average	2.5 2.5						
Count	4	000000000000000000000000000000000000000	***************************************		***************************************	000000000000000000000000000000000000000	000000000000000000000000000000000000000
Name of Respo Official or Auth Representa	norized _{have p} tive f _{amilia}	fy under the per personally exam ar with the infor	ined and am mation	I Signature o Author	f Responsible (ized Represent		Submission Date/Time
submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.)			Certification Version Date 2021-06- 23 13:06

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SUBMISSION ID:1059115STATUS:FACILITY:Emerald BioEnergyPERMIT NUMBER:LOCATION:2881 Co Rd 156STATION CODE:

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: Original
PERMIT NUMBER: 4IN00204*BD
STATION CODE: 609
MONITORING PERIOD:

2021-05-01 To: 2021-05-31

REPORTING LAB: N/A

ANALYST: Jeff williamson

			N	O DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING							
TYPE	Total	Total					
2021-05-01							
2021-05-02							
2021-05-03 2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07	2	22.59500					
2021-05-08							
2021-05-09				***************************************			
2021-05-10		<u> </u>					
2021-05-11 2021-05-12							
2021-05-13							
2021-05-14	2	22.20000					
2021-05-15							
2021-05-16							
2021-05-17		<u></u>					
2021-05-18		<u></u>					
2021-05-19 2021-05-20		9					
2021-05-20	2	22.20000					
2021-05-22		22/2000					
2021-05-23							
2021-05-24							
2021-05-25		.					
2021-05-26		<u> </u>					
2021-05-27 2021-05-28	2	20.60000					
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2021-05-30		8					
2021-05-31							
Minimum	2.0						
Maximum	2.0						
Average	2					000000000000000000000000000000000000000	
Count	4						
Name of Respo		fy under the per		I Signature o	f Responsible		Submission
Official or Auth		personally exam		Author	ized Represent	ative	Date/Time
Representa	år crimini	ar with the infoi					
		tted herein and				***************************************	***************************************
		y of those indiv					
		diately responsi		J			Certification
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Williams		mplete. I am aware that there prificant penalties for submitting					2021-06-
	are sić	nformation, incl		9			23 13:06
		pility of fine and					
	ID022IT	mits of this alla	пиризопшеш.	8		8	

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FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: MONITORING PERIOD: 4IN00204*BD

2021-05-01 To: 2021-05-31

Cardington, OH 43315

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
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